

Title (en)

Blind frequency offset estimation for pulse-shaped signals

Title (de)

Blindfrequenzversatzschätzung für impulsgeformte Signale

Title (fr)

Estimation de décalage de fréquence à l'aveugle de signaux impulsionnels

Publication

EP 2849362 A1 20150318 (EN)

Application

EP 13306246 A 20130911

Priority

EP 13306246 A 20130911

Abstract (en)

This invention relates to a receiver for detecting an optical signal, comprising a processing chain (DSP) being adapted for - Receiving an optical signal transmitted via an optical transmission channel; - Determining an estimation of a chromatic dispersion of said optical transmission channel; and compensating said optical signal for said chromatic dispersion on the basis of said estimation; - And being further adapted to determine a frequency offset and to compensate said optical signal for said frequency offset before the determination of said estimation of said chromatic dispersion.

IPC 8 full level

H04B 10/61 (2013.01)

CPC (source: EP)

H04B 10/6161 (2013.01); **H04B 10/6164** (2013.01); **H04B 10/65** (2020.05)

Citation (applicant)

EP 2372332 A1 20111005 - ALCATEL LUCENT [FR]

Citation (search report)

- [XYI] WO 2010145075 A1 20101223 - HUAWEI TECH CO LTD [CN], et al
- [XI] EP 2608436 A1 20130626 - HUAWEI TECH CO LTD [CN]
- [XI] WO 2012100253 A2 20120726 - VIASAT INC [US], et al
- [XI] US 2009142076 A1 20090604 - LI LEI [CN], et al
- [XI] US 2012033965 A1 20120209 - ZHANG ZHUHONG [CA], et al
- [Y] EP 2584720 A1 20130424 - NIPPON TELEGRAPH & TELEPHONE [JP]
- [A] TADAO NAKAGAWA ET AL: "Wide-range and fast-tracking frequency offset estimator for optical coherent receivers", 36TH EUROPEAN CONFERENCE AND EXHIBITION ON OPTICAL COMMUNICATION : (ECOC 2010) ; TORINO, ITALY, 19 - 23 SEPTEMBER 2010, IEEE, PISCATAWAY, NJ, USA, 19 September 2010 (2010-09-19), pages 1 - 3, XP031789538, ISBN: 978-1-4244-8536-9

Designated contracting state (EPC)

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Designated extension state (EPC)

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